

Pf-2782/nec/us/mh

ABSTRACT OF THE DISCLOSURE

The present invention provides a phase comparator provided in a
5 phase locked loop circuit, the phase comparator converting a phase
difference between first and second input signals into a current signal,
wherein the phase comparator has : a lock detector for detecting locked and
unlocked states of the phase locked loop circuit to generate a detected
10 signal which indicates one of the locked and unlocked states ; and a current
source connected to the lock detector for receiving the detected signal from
the lock detector and varying a supply current based on the detected signal,
so that if the detected signal indicates the unlocked states, then the current
source increases the supplying current.

15